

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/511,549
Source: PCT
Date Processed by STIC: 11/2/04

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/511,549 : CRF Edit Date: 11/2/04
Edited by: TC

Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

Corrected the SEQ ID NO. Sequence numbers edited were:

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

Deleted: invalid beginning/end-of-file text ; page numbers

Inserted mandatory headings/numeric identifiers, specifically:

Moved responses to same line as heading/numeric identifier, specifically:

Other:



PCT

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/511,549

DATE: 11/02/2004
TIME: 16:26:53

Input Set : A:\pto.kd.txt
Output Set: N:\CRF4\11022004\J511549.raw

3 <110> APPLICANT: Yamanouchi Pharmaceutical Co., Ltd.
5 <120> TITLE OF INVENTION: Screening method of agents for increasing insulin content
7 <130> FILE REFERENCE: Y0352PCT-698
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/511,549
C--> 9 <141> CURRENT FILING DATE: 2004-10-18
9 <150> PRIOR APPLICATION NUMBER: JP 2002-265622
10 <151> PRIOR FILING DATE: 2002-09-11
12 <150> PRIOR APPLICATION NUMBER: JP 2003-056813
13 <151> PRIOR FILING DATE: 2003-03-04
15 <160> NUMBER OF SEQ ID NOS: 7
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 1008
19 <212> TYPE: DNA
20 <213> ORGANISM: Homo sapiens
22 <220> FEATURE:
23 <223> OTHER INFORMATION: Inventor: Ohishi, Takahide; Koizumi, Tomonobu
25 <220> FEATURE:
26 <221> NAME/KEY: CDS
27 <222> LOCATION: (1)..(1008)
29 <400> SEQUENCE: 1
30 atg gaa tca tct ttc tca ttt gga gtg atc ctt gct gtc ctg gcc tcc 48
31 Met Glu Ser Ser Phe Ser Phe Gly Val Ile Leu Ala Val Leu Ala Ser
32 1 5 10 15
34 ctc atc att gct act aac aca cta gtg gct gtg gct gtg ctg ctg ttg 96
35 Leu Ile Ile Ala Thr Asn Thr Leu Val Ala Val Ala Val Leu Leu Leu
36 20 25 30
38 atc cac aag aat gat ggt gtc agt ctc tgc ttc acc ttg aat ctg gct 144
39 Ile His Lys Asn Asp Gly Val Ser Leu Cys Phe Thr Leu Asn Leu Ala
40 35 40 45
42 gtg gct gac acc ttg att ggt gtg gcc atc tct ggc cta ctc aca gac 192
43 Val Ala Asp Thr Leu Ile Gly Val Ala Ile Ser Gly Leu Leu Thr Asp
44 50 55 60
46 cag ctc tcc agc cct tct cgg ccc aca cag aag acc ctg tgc agc ctg 240
47 Gln Leu Ser Ser Pro Ser Arg Pro Thr Gln Lys Thr Leu Cys Ser Leu
48 65 70 75 80
50 cgg atg gca ttt gtc act tcc gca gct gcc tct gtc ctc acg gtc 288
51 Arg Met Ala Phe Val Thr Ser Ser Ala Ala Ala Ser Val Leu Thr Val
52 85 90 95
54 atg ctg atc acc ttt gac agg tac ctt gcc atc aag cag ccc ttc cgc 336
55 Met Leu Ile Thr Phe Asp Arg Tyr Leu Ala Ile Lys Gln Pro Phe Arg
56 100 105 110
58 tac ttg aag atc atg agt ggg ttc gtg gcc ggg gcc tgc att gcc ggg 384
59 Tyr Leu Lys Ile Met Ser Gly Phe Val Ala Gly Ala Cys Ile Ala Gly

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/511,549

DATE: 11/02/2004
TIME: 16:26:53

Input Set : A:\pto.kd.txt
Output Set: N:\CRF4\11022004\J511549.raw

60	115	120	125	
62	ctg tgg tta gtg tct tac ctc att ggc ttc ctc cca ctc gga atc ccc			432
63	Leu Trp Leu Val Ser Tyr Leu Ile Gly Phe Leu Pro Leu Gly Ile Pro			
64	130	135	140	
66	atg ttc cag cag act gcc tac aaa ggg cag tgc agc ttc ttt gct gta			480
67	Met Phe Gln Gln Thr Ala Tyr Lys Gly Gln Cys Ser Phe Phe Ala Val			
68	145	150	155	160
70	ttt cac cct cac ttc gtg ctg acc ctc tcc tgc gtt ggc ttc ttc cca			528
71	Phe His Pro His Phe Val Leu Thr Leu Ser Cys Val Gly Phe Phe Pro			
72	165	170	175	
74	gcc atg ctc ctc ttt gtc ttc tac tgc gac atg ctc aag att gcc			576
75	Ala Met Leu Leu Phe Val Phe Tyr Cys Asp Met Leu Lys Ile Ala			
76	180	185	190	
78	tcc atg cac agc cag cag att cga aag atg gaa cat gca gga gcc atg			624
79	Ser Met His Ser Gln Gln Ile Arg Lys Met Glu His Ala Gly Ala Met			
80	195	200	205	
82	gct gga ggt tat cga tcc cca cgg act ccc agc gac ttc aaa gct ctc			672
83	Ala Gly Gly Tyr Arg Ser Pro Arg Thr Pro Ser Asp Phe Lys Ala Leu			
84	210	215	220	
86	cgt act gtg tct gtt ctc att ggg agc ttt gct cta tcc tgg acc ccc			720
87	Arg Thr Val Ser Val Leu Ile Gly Ser Phe Ala Leu Ser Trp Thr Pro			
88	225	230	235	240
90	ttc ctt atc act ggc att gtg cag gtg gcc tgc cag gag tgt cac ctc			768
91	Phe Leu Ile Thr Gly Ile Val Gln Val Ala Cys Gln Glu Cys His Leu			
92	245	250	255	
94	tac cta gtg ctg gaa cgg tac ctg tgg ctg ctc ggc gtg ggc aac tcc			816
95	Tyr Leu Val Leu Glu Arg Tyr Leu Trp Leu Leu Gly Val Gly Asn Ser			
96	260	265	270	
98	ctg ctc aac cca ctc atc tat gcc tat tgg cag aag gag gtg cga ctg			864
99	Leu Leu Asn Pro Leu Ile Tyr Ala Tyr Trp Gln Lys Glu Val Arg Leu			
100	275	280	285	
102	cag ctc tac cac atg gcc cta gga gtg aag aag gtg ctc acc tca ttc			912
103	Gln Leu Tyr His Met Ala Leu Gly Val Lys Lys Val Leu Thr Ser Phe			
104	290	295	300	
106	ctc ctc ttt ctc tcg gcc agg aat tgt ggc cca gag agg ccc agg gaa			960
107	Leu Leu Phe Leu Ser Ala Arg Asn Cys Gly Pro Glu Arg Pro Arg Glu			
108	305	310	315	320
110	agt tcc tgt cac atc gtc act atc tcc agc tca gag ttt gat ggc taa			1008
111	Ser Ser Cys His Ile Val Thr Ile Ser Ser Ser Glu Phe Asp Gly			
112	325	330	335	
115	<210> SEQ ID NO: 2			
116	<211> LENGTH: 335			
117	<212> TYPE: PRT			
118	<213> ORGANISM: Homo sapiens			
120	<400> SEQUENCE: 2			
121	Met Glu Ser Ser Phe Ser Phe Gly Val Ile Leu Ala Val Leu Ala Ser			
122	1	5	10	15
123	Leu Ile Ile Ala Thr Asn Thr Leu Val Ala Val Ala Val Leu Leu			
124	20	25	30	

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/511,549

DATE: 11/02/2004
TIME: 16:26:53

Input Set : A:\pto.kd.txt
Output Set: N:\CRF4\11022004\J511549.raw

125 Ile His Lys Asn Asp Gly Val Ser Leu Cys Phe Thr Leu Asn Leu Ala
 126 35 40 45
 127 Val Ala Asp Thr Leu Ile Gly Val Ala Ile Ser Gly Leu Leu Thr Asp
 128 50 55 60
 129 Gln Leu Ser Ser Pro Ser Arg Pro Thr Gln Lys Thr Leu Cys Ser Leu
 130 65 70 75 80
 131 Arg Met Ala Phe Val Thr Ser Ser Ala Ala Ala Ser Val Leu Thr Val
 132 85 90 95
 133 Met Leu Ile Thr Phe Asp Arg Tyr Leu Ala Ile Lys Gln Pro Phe Arg
 134 100 105 110
 135 Tyr Leu Lys Ile Met Ser Gly Phe Val Ala Gly Ala Cys Ile Ala Gly
 136 115 120 125
 137 Leu Trp Leu Val Ser Tyr Leu Ile Gly Phe Leu Pro Leu Gly Ile Pro
 138 130 135 140
 139 Met Phe Gln Gln Thr Ala Tyr Lys Gly Gln Cys Ser Phe Phe Ala Val
 140 145 150 155 160
 141 Phe His Pro His Phe Val Leu Thr Leu Ser Cys Val Gly Phe Phe Pro
 142 165 170 175
 143 Ala Met Leu Leu Phe Val Phe Tyr Cys Asp Met Leu Lys Ile Ala
 144 180 185 190
 145 Ser Met His Ser Gln Gln Ile Arg Lys Met Glu His Ala Gly Ala Met
 146 195 200 205
 147 Ala Gly Gly Tyr Arg Ser Pro Arg Thr Pro Ser Asp Phe Lys Ala Leu
 148 210 215 220
 149 Arg Thr Val Ser Val Leu Ile Gly Ser Phe Ala Leu Ser Trp Thr Pro
 150 225 230 235 240
 151 Phe Leu Ile Thr Gly Ile Val Gln Val Ala Cys Gln Glu Cys His Leu
 152 245 250 255
 153 Tyr Leu Val Leu Glu Arg Tyr Leu Trp Leu Leu Gly Val Gly Asn Ser
 154 260 265 270
 155 Leu Leu Asn Pro Leu Ile Tyr Ala Tyr Trp Gln Lys Glu Val Arg Leu
 156 275 280 285
 157 Gln Leu Tyr His Met Ala Leu Gly Val Lys Lys Val Leu Thr Ser Phe
 158 290 295 300
 159 Leu Leu Phe Leu Ser Ala Arg Asn Cys Gly Pro Glu Arg Pro Arg Glu
 160 305 310 315 320
 161 Ser Ser Cys His Ile Val Thr Ile Ser Ser Ser Glu Phe Asp Gly
 162 325 330 335
 165 <210> SEQ ID NO: 3
 166 <211> LENGTH: 1008
 167 <212> TYPE: DNA
 168 <213> ORGANISM: Rattus sp.
 170 <220> FEATURE:
 171 <221> NAME/KEY: CDS
 172 <222> LOCATION: (1)..(1008)
 174 <400> SEQUENCE: 3
 175 atg gag tca tct ttc tca ttt gga gtg atc ctt gct gtc ctg acc atc 48
 176 Met Glu Ser Ser Phe Ser Phe Gly Val Ile Leu Ala Val Leu Thr Ile
 177 1 5 10 15

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/511,549

DATE: 11/02/2004
TIME: 16:26:53

Input Set : A:\pto.kd.txt
Output Set: N:\CRF4\11022004\J511549.raw

179	ctt atc att gct gtt aat gcg ctg gtg gtt gtg gct atg ctg cta tca	96
180	Leu Ile Ile Ala Val Asn Ala Leu Val Val Val Ala Met Leu Leu Ser	
181	20 25 30	
183	atc tac aag aat gat ggt gtt ggc ctt tgc ttc acc tta aat ctg gcc	144
184	Ile Tyr Lys Asn Asp Gly Val Gly Leu Cys Phe Thr Leu Asn Leu Ala	
185	35 40 45	
187	gtg gct gat acc ttg att ggc gtg gct att tct ggg cta gtt aca gac	192
188	Val Ala Asp Thr Leu Ile Gly Val Ala Ile Ser Gly Leu Val Thr Asp	
189	50 55 60	
191	cag ctc tcc agc tct gct cag cac aca cag aag acc ttg tgt agc ctt	240
192	Gln Leu Ser Ser Ala Gln His Thr Gln Lys Thr Leu Cys Ser Leu	
193	65 70 75 80	
195	cggtatggca ttc gtc act tct tct gca gcc gcc tct gtc ctc acg gtc	288
196	Arg Met Ala Phe Val Thr Ser Ser Ala Ala Ala Ser Val Leu Thr Val	
197	85 90 95	
199	atg ctg att gcc ttt gac agg tac ctg gcc att aag cag ccc ctc cgt	336
200	Met Leu Ile Ala Phe Asp Arg Tyr Leu Ala Ile Lys Gln Pro Leu Arg	
201	100 105 110	
203	tac ttc cag atc atg aat ggg ctt gta gcc gga gga tgc att gca ggg	384
204	Tyr Phe Gln Ile Met Asn Gly Leu Val Ala Gly Gly Cys Ile Ala Gly	
205	115 120 125	
207	ctg tgg ttg ata tct tac ctt atc ggc ttc ctc cca ctt gga gtc tcc	432
208	Leu Trp Leu Ile Ser Tyr Leu Ile Gly Phe Leu Pro Leu Gly Val Ser	
209	130 135 140	
211	ata ttc cag cag acc acc tac cat ggg ccc tgc acc ttc ttt gct gtg	480
212	Ile Phe Gln Gln Thr Thr Tyr His Gly Pro Cys Thr Phe Phe Ala Val	
213	145 150 155 160	
215	ttt cac cca agg ttt gtg ctg acc ctc tcc tgt gct ggc ttc ttc cca	528
216	Phe His Pro Arg Phe Val Leu Thr Leu Ser Cys Ala Gly Phe Phe Pro	
217	165 170 175	
219	gct gtg ctc ctc ttt gtc ttc ttc tac tgt gac atg ctc aag att gcc	576
220	Ala Val Leu Leu Phe Val Phe Tyr Cys Asp Met Leu Lys Ile Ala	
221	180 185 190	
223	tct gtg cac agc cag cac atc cgg aag atg gaa cat gca gga gcc atg	624
224	Ser Val His Ser Gln His Ile Arg Lys Met Glu His Ala Gly Ala Met	
225	195 200 205	
227	gtt gga gct tgc cgg ccc cca cgg cct gtc aat gac ttc aag gct gtc	672
228	Val Gly Ala Cys Arg Pro Pro Arg Pro Val Asn Asp Phe Lys Ala Val	
229	210 215 220	
231	cgg act gta tct gtc ctt att ggg agc ttc acc ctg tcc tgg tct ccg	720
232	Arg Thr Val Ser Val Leu Ile Gly Ser Phe Thr Leu Ser Trp Ser Pro	
233	225 230 235 240	
235	ttt ctc atc act agc att gtg cag gtg gcc tgc cac aaa tgc tgc ctc	768
236	Phe Leu Ile Thr Ser Ile Val Gln Val Ala Cys His Lys Cys Cys Leu	
237	245 250 255	
239	tac caa gtg ctg gaa aaa tac ctc tgg ctc ctt gga gtt ggc aac tcc	816
240	Tyr Gln Val Leu Glu Lys Tyr Leu Trp Leu Leu Gly Val Gly Asn Ser	
241	260 265 270	
243	ctg ctc aac cca ctc atc tat gcc tat tgg cag agg gag gtt cgg cag	864

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/511,549

DATE: 11/02/2004

TIME: 16:26:53

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\11022004\J511549.raw

244 Leu Leu Asn Pro Leu Ile Tyr Ala Tyr Trp Gln Arg Glu Val Arg Gln
 245 275 280 285
 247 cag ctc tgc cac atg gcc ctg ggg gtg aag aag ttc ttt act tca atc 912
 248 Gln Leu Cys His Met Ala Leu Gly Val Lys Lys Phe Phe Thr Ser Ile
 249 290 295 300
 251 ttc ctc ctt ctc tcg gcc agg aat cgt ggt cca cag agg acc cga gaa 960
 252 Phe Leu Leu Leu Ser Ala Arg Asn Arg Gly Pro Gln Arg Thr Arg Glu
 253 305 310 315 320
 255 agc tcc tat cac atc gtc act atc agc cag ccg gag ctc gat ggc tag 1008
 256 Ser Ser Tyr His Ile Val Thr Ile Ser Gln Pro Glu Leu Asp Gly
 257 325 330 335
 260 <210> SEQ ID NO: 4
 261 <211> LENGTH: 335
 262 <212> TYPE: PRT
 263 <213> ORGANISM: Rattus sp.
 265 <400> SEQUENCE: 4
 266 Met Glu Ser Ser Phe Ser Phe Gly Val Ile Leu Ala Val Leu Thr Ile
 267 1 5 10 15
 268 Leu Ile Ile Ala Val Asn Ala Leu Val Val Val Ala Met Leu Leu Ser
 269 20 25 30
 270 Ile Tyr Lys Asn Asp Gly Val Gly Leu Cys Phe Thr Leu Asn Leu Ala
 271 35 40 45
 272 Val Ala Asp Thr Leu Ile Gly Val Ala Ile Ser Gly Leu Val Thr Asp
 273 50 55 60
 274 Gln Leu Ser Ser Ser Ala Gln His Thr Gln Lys Thr Leu Cys Ser Leu
 275 65 70 75 80
 276 Arg Met Ala Phe Val Thr Ser Ser Ala Ala Ala Ser Val Leu Thr Val
 277 85 90 95
 278 Met Leu Ile Ala Phe Asp Arg Tyr Leu Ala Ile Lys Gln Pro Leu Arg
 279 100 105 110
 280 Tyr Phe Gln Ile Met Asn Gly Leu Val Ala Gly Gly Cys Ile Ala Gly
 281 115 120 125
 282 Leu Trp Leu Ile Ser Tyr Leu Ile Gly Phe Leu Pro Leu Gly Val Ser
 283 130 135 140
 284 Ile Phe Gln Gln Thr Thr Tyr His Gly Pro Cys Thr Phe Phe Ala Val
 285 145 150 155 160
 286 Phe His Pro Arg Phe Val Leu Thr Leu Ser Cys Ala Gly Phe Phe Pro
 287 165 170 175
 288 Ala Val Leu Leu Phe Val Phe Tyr Cys Asp Met Leu Lys Ile Ala
 289 180 185 190
 290 Ser Val His Ser Gln His Ile Arg Lys Met Glu His Ala Gly Ala Met
 291 195 200 205
 292 Val Gly Ala Cys Arg Pro Pro Arg Pro Val Asn Asp Phe Lys Ala Val
 293 210 215 220
 294 Arg Thr Val Ser Val Leu Ile Gly Ser Phe Thr Leu Ser Trp Ser Pro
 295 225 230 235 240
 296 Phe Leu Ile Thr Ser Ile Val Gln Val Ala Cys His Lys Cys Cys Leu
 297 245 250 255
 298 Tyr Gln Val Leu Glu Lys Tyr Leu Trp Leu Leu Gly Val Gly Asn Ser

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/511,549

DATE: 11/02/2004
TIME: 16:26:54

Input Set : A:\pto.kd.txt
Output Set: N:\CRF4\11022004\J511549.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date